FORM PTO-1449/A and B (midfied PTO/SB/0) INFORMATION DISCRO STATEMENT BY APPLICANT

of

Shect

APPLICATION NO.: 10/020,004

ATTY. DOCKET NO.: H0498.70164US00

FILING DATE: 2001

December 11,

CONFIRMATION NO.: 7232

APPLICANT:

Charles M. Lieber et al.

GROUP ART UNIT: 2826

EXAMINER:

Victor A. Mandala

U.S. PATENT DOCUMENTS

Examiner's	Cite	U.S. Patent Documer	nt	Name of Patentee or Applicant of Cited	Date of Publication or Issue of Cited Document MM-DD-YYYY	
Initials #	No.	Number	Kind Code	Document		
VM		5,824,470		Baldeshwieler et al	10-20-1998	
		5,908,692		Hamers et al.	06-01-1999	
		6,270,074	Bl	Rasmussen et al.	08-07-2001	
		6,278,231	Bl	Iwasaki et al.	08-21-2001	
		6,437,329	Bl	Yedur et al.	08-20-2002	
		6,586,095	B2	Wang et al.	07-01-2003	
		6,756,025	B2	Colbert et al.	06-29-2004	
		6,756,795	B2	Hunt et al.	06-29-2004	
		6,803,840	B2	Hunt et al.	10-12-2004	
		6,808,746	Bl	Dai et al.	10-26-2004	
		6,846,565	B2	Korgel et al.	01-25-2005	
		6,902,720	B2	McGimpsey	06-07-2005	
		6,958,216	B2	Kekkey et al.	10-25-2005	
		6,962,823	B2	Empedocles et al.	11-08-2005	
	•	6,974,706	Bl	Melker et al.	12-13-2005	
		2002/0040805	Al	Swager	04-11-2002	
		2002/0187504 VANO	Al	Reich et al.	12-12-2002	
		2003/001091	A1	Nakayama et al.	01-02-2003	
		2003/0032892	Al	Erlach et al.	02-13-2003	
		2003/0048619	Al	Kaler et al.	03-13-2003	
		2003/0073071	A1	Fritz et al.	04-17-2003	
		2003/0113940	A1	Erlanger et al.	06-19-2003	
		2003/0124717	Äl	Awano et al.	07-03-2003	
		2003/0134267	Äl	Kang et al.	07-17-2003	
		2003/0135971	Àl	Liberman et al.	07-24-2003	
		. 2005/0037374	Al	Melker et al.	02-17-2005	
		2005/0072213	Al	Besnard et al.	04-07-2005	
		2005/0100960	Αľ	Dai et al.	05-12-2005	
<u> </u>		2005/0101026	A1	Sailor et al.	05-12-2005	
VΜ		2005/0253137	. A1	Whang et al.	11-17-2005	

FOREIGN PATENT DOCUMENTS

Examiner's	Cite ··No.	Foreign Patent Document			Name of Patentee or Applicant of Cited	Date of Publication of	Translation
Initials #		Office/ Country	Number	Kind Code	Document	Cited Document MM-DD-YYYY	(Y/N)
VM		wo	02/086480	Al	Stanford University		
VM		WO.	02/31183	Al	Bioforce Laboratory, Inc.		

APPLICATION NO.: 10/020,004 ATTY. DOCKET NO.: H0498.70164US00 FORM PTO-1449/A and B (modified PTO/SB/08) December 11, FILING DATE: CONFIRMATION NO.: 7232 2001 INFORMATION DISCLOSURE STATEMENT BY APPLICANT Charles M. Lieber et al. APPLICANT: GROUP ART UNIT: 2826 **EXAMINER:** Victor A. Mandala of 3 Sheet

VM	wo	05/093831	A1_	President and Fellows of Harvard College	
V/M	wo	05/114282	A2	The Regents of the University of California	
VM	wo .	99/63347		Jones	

OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials "	Cite No Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.						
. VM		AGARWAL, R. et al., "Lasing in Single Cadmium Sulfide Nanowire Optical Cavities," Nano Letters, 2005, 5(5):917-920					
		CHEN, R.J. et al., "Noncovalent functionalization of carbon nanotubes for highly specific electronic biosensors," PNAS, April 2003, 100(9):4984-4989	•				
·		CHOI, K.J. et al., "Enhancement of Ferroelectricity in Strained BaTiO ₃ Thin Films," Science, Nov. 2004, 306:1005-1009					
	8	DUAN, X. et al., "Synthesis and optical properties of gallium arsenide nanowires," Applied Physics Letters, Feb. 2000, 76(9):1116-1118					
		FRIEDMAN, R.S. et al., "High-speed integrated nanowire circuits," Nature, April 2005, 434:1085					
		GRADECAK, S. et al., "GaN nanowire lasers with now lasing thresholds," Applied Physics Letters, 2005, 87:173111-1-173111-3					
		HAHM, J. et al., "Direct Ultrasensitive Electrical Detection of DNA and DNA Sequence Variations Using Nanowire Nanosensors," Nano Letters, 2004, 4(1):51-54					
		HEATH, J.R. et al., "A liquid solution synthesis of single crystal germanium quantum wires," Chemical Physics Letters, June 1993, 208(3,4):263-268					
		HU, S.Y. et al., "Serpentine Superlattice Nanowire-Array Lasers," IEEE Journal of Quantum Electronics, August 1995, 31(8):1380-1388					
		LAW, M. et al., "Nanoribbon Waveguides for Subwavelength Photonics Integration," Science, August 2004, 305:1269-1273					
•		LEFF, D.V. et al., "Thermodynamic Control of Gold Nanocrystal Size: Experiment and Theory," J. Phys. Chem., 1995, 99:7036-7041					
		LEI, B. et al., "Nanowire transistors with ferroelectric gate dielectrics: Enhanced performance and memory effects," Applied Physics Letters, May 2004, 84(22):4553-4555					
		LIEBER, C., "Nanowire Superlattices," Nano Letters, February 2002, 2(2):81-82					
		MCALPINE, M.C. et al., "High-Performance Nanowire Electronics and Photonics and Nanoscale Patterning on Flexible Plastic Substrates," <i>Proceedings of the IEEE</i> , July 2005, 93(7):1357-1363					
		MENON, V.P. et al., "Fabrication and Evaluation of Nanoelectrode Ensembles," Anal. Chem., July 1995, 67(13):1920-1928					
		PATOLSKY, F. et al., "Nanowire nanosensors," Materials Today, April 2005, 8:20-28	· ·				
		PATOLSKY, F. et al., "Electrical detection of single viruses," PNAS, Sept. 2004, 101(39):14017-14022					
V		QI, P. et al., "Toward Large-Arrays of Multiplex Functionalized Carbon Nanotube Sensors for Highly Sensitive and Selective Molecular Detection," Nano Letters, 2003, 3(3):347-351					
VM		TONE, L. et al., "Subwavelength-diameter silica wires for low-loss optical wave guiding," <i>Nature</i> , Dec. 2003, 426:816-819					

			(4)	APPLICATION NO.:	10/020,004	ATTY. DOCKET N	O.: H0498.70164US00	
	-1449/A and B (r RMATION]			FILING DATE: 2001	December 11,	CONFIRMATION NO.: 7232		
	EMENT BY			APPLICANT:	Charles M. Lieber et al.			
			· ·	GROUP ART UNIT:	2826	EXAMINER:	Victor A. Mandala	
Sheet	3	of	3	GROOF ART OWN.				

VM	URBAN, J. et al., "Single-Crystalline Barium Titanate Nanowires," Adv. Mater., 2003, 15(5):423-426	
	VOSSMEYER, T. et al., "Combinatorial approaches toward patterning nanocrystals," Journal of Applied Physics, 1998, 84(7):3664-3670	
	WANG, W.U., "Label-free detection of small-molecule-protein interactions by using nanowire nanosensors," PNAS, 2005, 102(9):3208-3212	
	WHANG, D. et al., "Large-Scale Hierarchical Organization of Nanowire Arrays for Integrated Nanosystems," Nano Letters, 2003, 3(9)"1255-1259	
	WHANG, D. et al., "Nanolithography Using Hierarchically Assembled Nanowire Masks," Nano Letters, 2003, 3(7):951-954	
	WU, Y. et al., "Controlled Growth and Structures of Molecular-Scale Silicon Nanowires," Nano Letters, 2004, 4(3):433-436	
	WU, Y. et al., "Single-Crystal metallic nanowires and metal/semiconductor nanowire heterostructures," <i>Nature</i> , 2004, 430:61-65	
	YANG, P., "Wires on water," Nature, 2003, 425:243-244	
	ZHENG, G. et al., "Synthesis and Fabrication of High-Performance n-Type Silicon Nanowire Transistors," Advanced Materials, 2004, 16(21):1890-1893	
	ZHENG, G. et al., "Multiplexed electrical detection of cancer markers with nanowire sensor arrays," Nature Biotechnology, 2005, 23(10):1294-1301	
	ZHONG, Z. et al., "Synthesis of p-Type Gallium Nitride Nanowires for Electronic and Photonic Nanodevices," Nano Letters, 2003, 3(3):343-346	
	ZHONG, Z. et al., "Coherent Single Charge Transport in Molecular-Scale Silicon Nanowires," Nano Letters, 2005, 5(6):1143-1146	н
1/	Office Action dated 02/23/06 in U.S.S.N. 10/196,337	
V	Search Report from International Application No. PCT/US2005/004459	
VM	Written Opinion from International Application No. PCT/US2005/004459	

EXAMINER:	DATE CONSIDERED:	·
/Victor Mandala/	05/25/2006	

^{*} EXAMINER: Initial if reference considered, whether or notcitation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

[NOTE - No copies of U.S. patents, published U.S. patent applications, or pending, unpublished patent applications stored in the USPTO's Image File Wrapper (IFW) system, are included. See 37 CFR §1.98 and 12870G163. Copies of all other patent(s), publication(s), unpublished, pending U.S. patent applications, or other information listed are provided as required by 37 CFR §1.98 unless 1) such copies were provided in an IDS in an earlier application that complies with 37 CFR §1.98, and 2) the earlier application is relied upon for an earlier filing date under 35 U.S.C. §120.]

^{*}a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. ___, filed ___, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).